RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/6014461

Source: 1FWD

Date Processed by STIC: 11/30/4

ENTERED

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         RAW SEQUENCE LISTING                    DATE: 11/30/2004
         PATENT APPLICATION:   US/10/614,481     TIME: 15:06:00

         Input Set : N:\Crf3\RULE60\10614481.raw
         Output Set: N:\CRF4\11302004\J614481.raw


  1 <110> APPLICANT: Bublot, et al.
  2 <120> TITLE OF INVENTION: Equine GM-CSF
  3 <130> FILE REFERENCE: 454313-2334.1
  4 <140> CURRENT APPLICATION NUMBER: US/10/614,481
  5 <141> CURRENT FILING DATE: 2003-07-07
  6 <150> PRIOR APPLICATION NUMBER: US/09/589,460
  7 <151> PRIOR FILING DATE: 2000-06-07
  8 <150> PRIOR APPLICATION NUMBER: 60/138,843
  9 <151> PRIOR FILING DATE: 1999-06-10
 10 <160> NUMBER OF SEQ ID NOS: 9
 11 <170> SOFTWARE: PatentIn version 3.0
 13 <210> SEQ ID NO: 1
 14 <211> LENGTH: 20
 15 <212> TYPE: DNA
 16 <213> ORGANISM: Artificial Sequence
 17 <220> FEATURE:
 18 <223> OTHER INFORMATION: oligonucleotide primer
-> 19 <221> NAME/KEY: misc_feature
 20 <222> LOCATION: (13)..(13)
 21 <223> OTHER INFORMATION: nucleotide "y" can be either of the pyrimidine nucleotides
:" or
 22        "t"
-> 23 <400> 1
 24        tgggcactgt ggyctgcagc                                          20
 26 <210> SEQ ID NO: 2
 27 <211> LENGTH: 17
 28 <212> TYPE: DNA
 29 <213> ORGANISM: Artificial Sequence
 30 <220> FEATURE:
 31 <223> OTHER INFORMATION: oligonucleotide primer
-> 32 <221> NAME/KEY: misc_feature
 33 <222> LOCATION: (9)..(9)
 34 <223> OTHER INFORMATION: nucleotide "r" can be either of the purine nucleotides "a" or
"
-> 35 <400> 2
 36        agcatgtgra tgccatc                                             17
 38 <210> SEQ ID NO: 3
 39 <211> LENGTH: 21
 40 <212> TYPE: DNA
 41 <213> ORGANISM: Artificial Sequence
 42 <220> FEATURE:
 43 <223> OTHER INFORMATION: oligonucleotide primer
 44 <400> SEQUENCE: 3
 45        agctcccagg gctagctcct a                                        21
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47 <210> SEQ ID NO: 4

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 49 <212> TYPE: DNA
 50 <213> ORGANISM: Artificial Sequence
 51 <220> FEATURE:
 52 <223> OTHER INFORMATION: oligonucleotide primer
 53 <400> SEQUENCE: 4
 54       ccctgtttgt acagcttcag g                              21
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 57 <211> LENGTH: 21
 58 <212> TYPE: DNA
 59 <213> ORGANISM: Artificial Sequence
 60 <220> FEATURE:
 61 <223> OTHER INFORMATION: oligonucleotide primer
 62 <400> SEQUENCE: 5
 63       tgttgttcag aaggctcagg g                              21
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 66 <211> LENGTH: 44
 67 <212> TYPE: DNA
 68 <213> ORGANISM: Artificial Sequence
 69 <220> FEATURE:
 70 <223> OTHER INFORMATION: oligonucleotide primer
 71 <400> SEQUENCE: 6
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 75 <211> LENGTH: 41
 76 <212> TYPE: DNA
 77 <213> ORGANISM: Artificial Sequence
 78 <220> FEATURE:
 79 <223> OTHER INFORMATION: oligonucleotide primer
 80 <400> SEQUENCE: 7
 81       catcatcatg cggccgctac ttctgggctg ctggcttcca g          41
 83 <210> SEQ ID NO: 8
 84 <211> LENGTH: 435
 85 <212> TYPE: DNA
 86 <213> ORGANISM: Equine sp.
 87 <220> FEATURE:
 88 <221> NAME/KEY: CDS
 89 <222> LOCATION: (1)..(432)
 90 <223> OTHER INFORMATION: coding sequence of equine GM-CSF gene
 91 <400> SEQUENCE: 8
 92       atg tgg ctg cag aac ctg ctt ctt ctg ggc act gtg gtt tac agc atg    48
 93       Met Trp Leu Gln Asn Leu Leu Leu Leu Gly Thr Val Val Tyr Ser Met
 94       1               5                   10                  15
 95       ccc gca ccc acc cgc caa ccc agc cct gtc act cgg ccc tgg cag cat    96
 96       Pro Ala Pro Thr Arg Gln Pro Ser Pro Val Thr Arg Pro Trp Gln His
 97                   20                  25                  30
 98       gtg gat gcc atc aag gag gcc ctg agc ctt ctg aac aac agt agt gac    144
 99       Val Asp Ala Ile Lys Glu Ala Leu Ser Leu Leu Asn Asn Ser Ser Asp
100                   35                  40                  45
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101        act gct gct atc atg aat gaa aca gta gaa gtc gtc tct gaa acg ttt        192
102        Thr Ala Ala Ile Met Asn Glu Thr Val Glu Val Val Ser Glu Thr Phe
103            50                  55                  60
104        gac gcc gag gag ctg aca tgc ctg cag act cgc ctg aag ctg tac aaa        240
105        Asp Ala Glu Glu Leu Thr Cys Leu Gln Thr Arg Leu Lys Leu Tyr Lys
106        65                  70                  75                  80
107        cag ggc ttg cgg ggc agc ctc atc aag ctc gaa ggc ccc ttg acc atg        288
108        Gln Gly Leu Arg Gly Ser Leu Ile Lys Leu Glu Gly Pro Leu Thr Met
109                        85                  90                  95
110        atg gcc agc cac tac aag cag cac tgc ccc ccc acc ctg gaa act tcc        336
111        Met Ala Ser His Tyr Lys Gln His Cys Pro Pro Thr Leu Glu Thr Ser
112                    100                 105                 110
113        tgt gca acc cag atg atc acc ttc aaa agt ttc aaa aag aac ctg aag        384
114        Cys Ala Thr Gln Met Ile Thr Phe Lys Ser Phe Lys Lys Asn Leu Lys
115                    115                 120                 125
116        gat ttt ctg ttt gag atc ccg ttt gac tgc tgg aag cca gcc cag aag        432
117        Asp Phe Leu Phe Glu Ile Pro Phe Asp Cys Trp Lys Pro Ala Gln Lys
118                    130                 135                 140
119        taa                                                                    435
121 <210> SEQ ID NO: 9
122 <211> LENGTH: 144
123 <212> TYPE: PRT
124 <213> ORGANISM: Equine sp.
125 <400> SEQUENCE: 9
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127        1                   5                   10                  15
128        Pro Ala Pro Thr Arg Gln Pro Ser Pro Val Thr Arg Pro Trp Gln His
129                        20                  25                  30
130        Val Asp Ala Ile Lys Glu Ala Leu Ser Leu Leu Asn Asn Ser Ser Asp
131                    35                  40                  45
132        Thr Ala Ala Ile Met Asn Glu Thr Val Glu Val Val Ser Glu Thr Phe
133            50                  55                  60
134        Asp Ala Glu Glu Leu Thr Cys Leu Gln Thr Arg Leu Lys Leu Tyr Lys
135        65                  70                  75                  80
136        Gln Gly Leu Arg Gly Ser Leu Ile Lys Leu Glu Gly Pro Leu Thr Met
137                        85                  90                  95
138        Met Ala Ser His Tyr Lys Gln His Cys Pro Pro Thr Leu Glu Thr Ser
139                    100                 105                 110
140        Cys Ala Thr Gln Met Ile Thr Phe Lys Ser Phe Lys Lys Asn Leu Lys
141                    115                 120                 125
142        Asp Phe Leu Phe Glu Ile Pro Phe Asp Cys Trp Lys Pro Ala Gln Lys
143                    130                 135                 140
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Invalid Line Length:
The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 21
Seq#:2; Line(s) 34

VERIFICATION SUMMARY   DATE: 11/30/2004
PATENT APPLICATION: **US/10/614,481**   TIME: 15:06:01

Input Set : **N:\Crf3\RULE60\10614481.raw**
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L:19 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:23 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:32 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:35 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2